

Figure 1

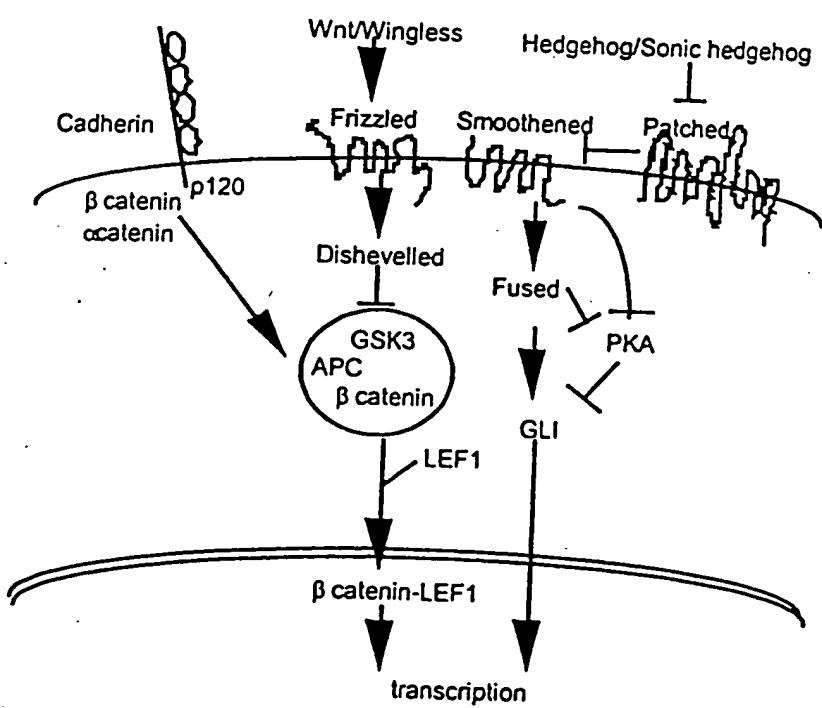


Figure 2a

Alignment of several frizzled family members

→ amino terminal domain

fz3/mouse	-----MAVSWIVFDLWLLTVFLG---QIGGHS-----LFSCE
fz4/mouse	-----MAWP GTGPS---SRGAPGGVGLRLGLLLQFLLLKRPTLGF D---EEERRCD
fz8/mouse	-----MEWGYL---LEVT SLLAALAVLQRSSG-AAAASAK-----ELACQ
fz5/human	-----MARPD P---SAPP SLL-LLLAQLVG-RAAAASK-----APVCQ
fz9/human	-----MAVAPL RGALLWQLLAAGGALEIGRFD-----PERGRG-----AAPCQ
fz1/rat	-----LEAPLLLGVRAQPAG---QVSG-PGQQR PPPPQPQQGG---QQYNGERG--ISIPDHG YCQ
fz2/rat	-----MRAR SAL---PRSA LPRLLPLLLLPAAGP--AQFHGEKG--ISIPDHGFCQ
fz/Dros	-----ILPTL IQGVQRYDQS---PLDASPY YRSGGGLMASSG---TELDG-----LPHNRCE
fz2/Dros/	-----GLVLLTSCRADGPL---HSADHGMGGMGMGGHGLD-ASPAPGYGVPAIPKDPNLRCE
* :	
	CRD
fz3/mouse	PITLRCMCQDLPYNTTFMPNLLNHYDQQTAAALAMEPFHPMVNLDCSRDFRPFCLALYAPIC
fz4/mouse	PIRIAMCQNLGYNVTKMPNLVGH EQLTFTPLI QYGCSSQLQFFLCSVYVPM C
fz8/mouse	EITVPLCKGIGYNYTYMPNQFNHDTQDEAGLEVHQFWPLV EIQCSPDLKFFLCSMYTPIC
fz5/human	EITVPMCRGIGYNLTHMPNQFNHDTQDEAGLEVHQFWPLV EIQCSPDLRFFLCTMYTPIC
fz9/human	AVEIPMCRGIGYNLTRMPNLLGHTSQGEAAAELAEFAPLVQYGC HSHLRFFLCSLYAPMC
fz1/rat	PISIPLCTDIAYNQTIMPNLLGHTNQEDAGLEVHQFWPLV EIQCSPDLRFFLCSMYAPVC
fz2/rat	PISIPLCTDIAYNQTIMPNLLGHTNQEDAGLEVHQFWPLV EIQCSPDLRFFLCSMYAPVC
fz/Dros	PITISICKNIPYNMTIMPNLIGHTKQEEAGLEVHQFWPLV KIGCSDDLQLFLCSLYVPVC
fz2/Dros/	EITIPMCRGIGYNMTSF PNEMNHETQDEAGLEVHQFWPLV EIKCSPDLKFFLCSMYTPIC
: : * . : ** . * * * : : * : : * : : * : * : : * :	
	CRD
fz3/mouse	M-EYGRVTLPCRRLCQRAYSECSKLMEMFG-VPWPEDMECSRF PDCD-EPYPRLV DLN--
fz4/mouse	TEKINIPIGPCGGMCLSVKRRCEPVLREFG-FAWPDTLNCFSKFPQPN-DHNHMCMEGP--
fz8/mouse	LEDYKKPLPPCRSVCERAKAGCPLMRQYG-FAWPDRMRCDR LPEQG-NPDTLCMDYN-R
fz5/human	LPDYHKPLPPCRSVCERAKAGCPLMRQYG-FAWPERMCDRLPV LGRDAEVLCMDYN-R
fz9/human	TDQVSTPIPACRMCEQARLRCAPIMEQFN-FGWPDSLDCARLPTRN-DPHALCMEAPEN
fz1/rat	T-VLEQALPPCRSLCERA-QGCEALMNKFG-FQWPDTLKCEKFVHG--AGELCVGQNTS
fz2/rat	T-VLEQAI PPPCRSICERARQGCEALMNKFG-FQWPERLRC EHFPRHG--AEQICVGQNH S
fz/Dros	T-ILERPIPPCRSLCESA-RVCEKLMKTYN-FNWPNLECSKFPVHG--GEDLCVAENTT
fz2/Dros/	LEDYHKPLPVCRSVCERARSGCAPIMQQYS-FEWPERMACEHPLHG-DPDNLCMEQPSY
* : * . * * . : * : * : * : :	
	LVGDPTE--
fz3/mouse	--GDEE-----VPLPHKTP-
fz4/mouse	TDLTTAAPSPPRRLPPPPPGEQPPSGSGHSRPPGARPPH RGSSRGSGDAAAAPPSRGG
fz8/mouse	SEATTAPPRP---FPAKP---TLP---G---PP-----G---APAS-GG
fz5/human	ATAGPAEPHK---GLGM---LP-----VAPRPARPPG
fz9/human	DKGTPTPSL-----L-----PEFWTSNPQHG
fz1/rat	EDG---TPAL-----L-----TTAPP SGLQPG
fz2/rat	SSA-----STAATPTRSVA
fz/Dros	TEAGSGGGSSG---GSGG---SGSGSGGGKRKQGGSGSGGGAGGSSG STSTKPCR-GR
fz2/Dros/	

Figure 2b

amino terminal domain continued

Figure 2c

Figure 3

Sequence alignment of a portion of the aminoterminal extracellular region of human Frizzled receptors

HFZ1	VGQNTSDKGT---PSLLPEFWTSNPQHGGGGHRC	GFPGGAG---ASERGKFSCP
HFZ2	VGQNHSEDGA----PALLTTAPPPGLQPGAGGTPG	GPAGGGAPPYATLEHPFHC
HFZ3	LVDLNLAG----EPTEGAPV	AVQRDYG----FWC
HFZ4	CMEGPGD----EE	VPLPHKTPI----QP
HFZ5	CMDYNRSEATTAPPRPFPAKPTLPG	PPGA----PASGG----ECPAGGPFV----CKC
HFZ6	TFDPHTEF----LGPQKKTE	QVQRDIG----FWC
HFZ7	VGQNTSDGSGPGGGPTAYPTAPYLPDLPFTALPPG	ASDGRGRPAF----PFSC
HFZ8	CMDYNRTDLTTAAPSPPRRLPPP----GEQPPSGSGHGRPPGARPPHRRGGGRGGGGDAAAPPARGGGGGKARPPGGGAAP	CEPGCQC
HFZ9	CMEAPENA-TAGPAEPHKGLGMLPV----APRPARPPG	DLGP
HFZ10	NYLCMEAPNN---GSDEPTRGSGLFPP	LFRPQRPHSAQ---EHP

Figure 4

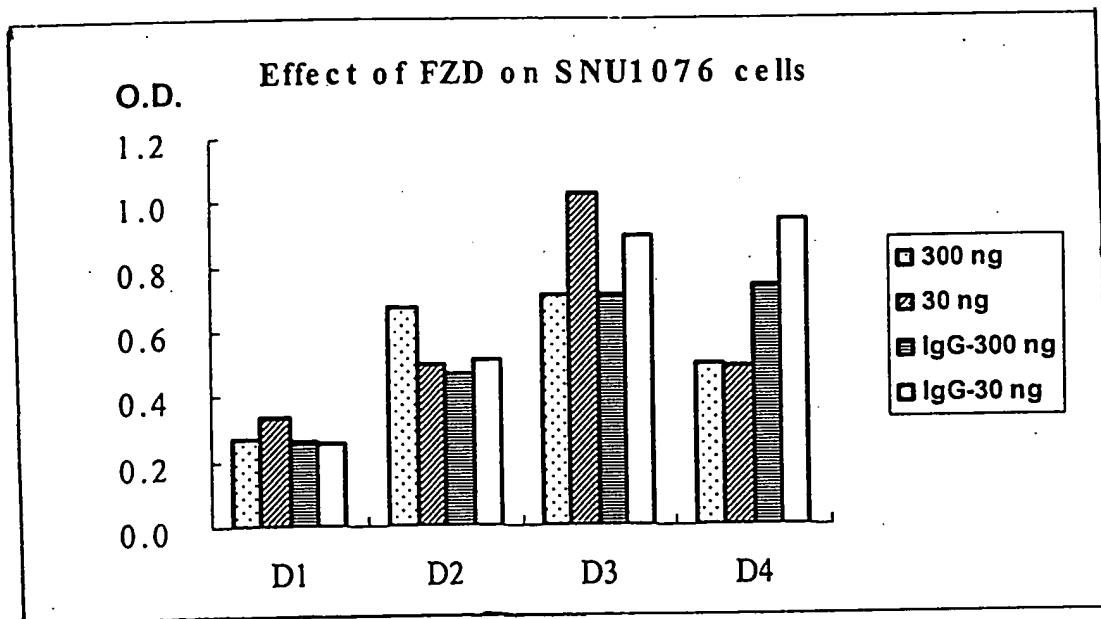


Figure 5

Effect of antibodies SNU 1076 Cells

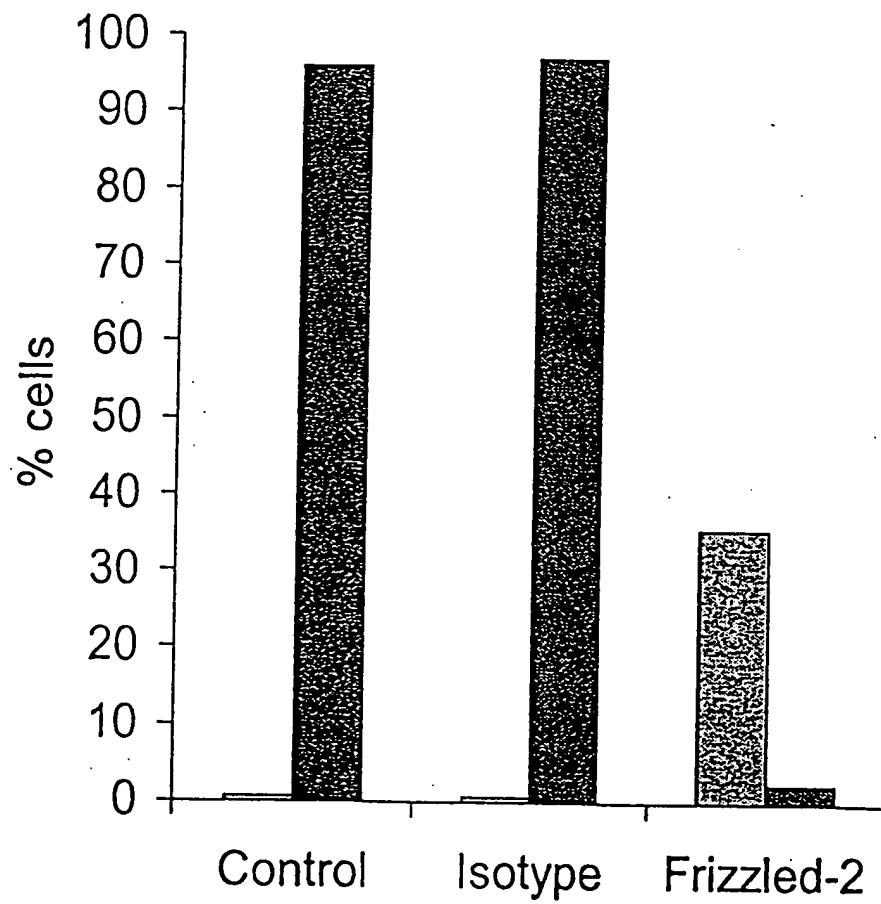


Figure 6

Effect of antibodies on SNU 1076 cells

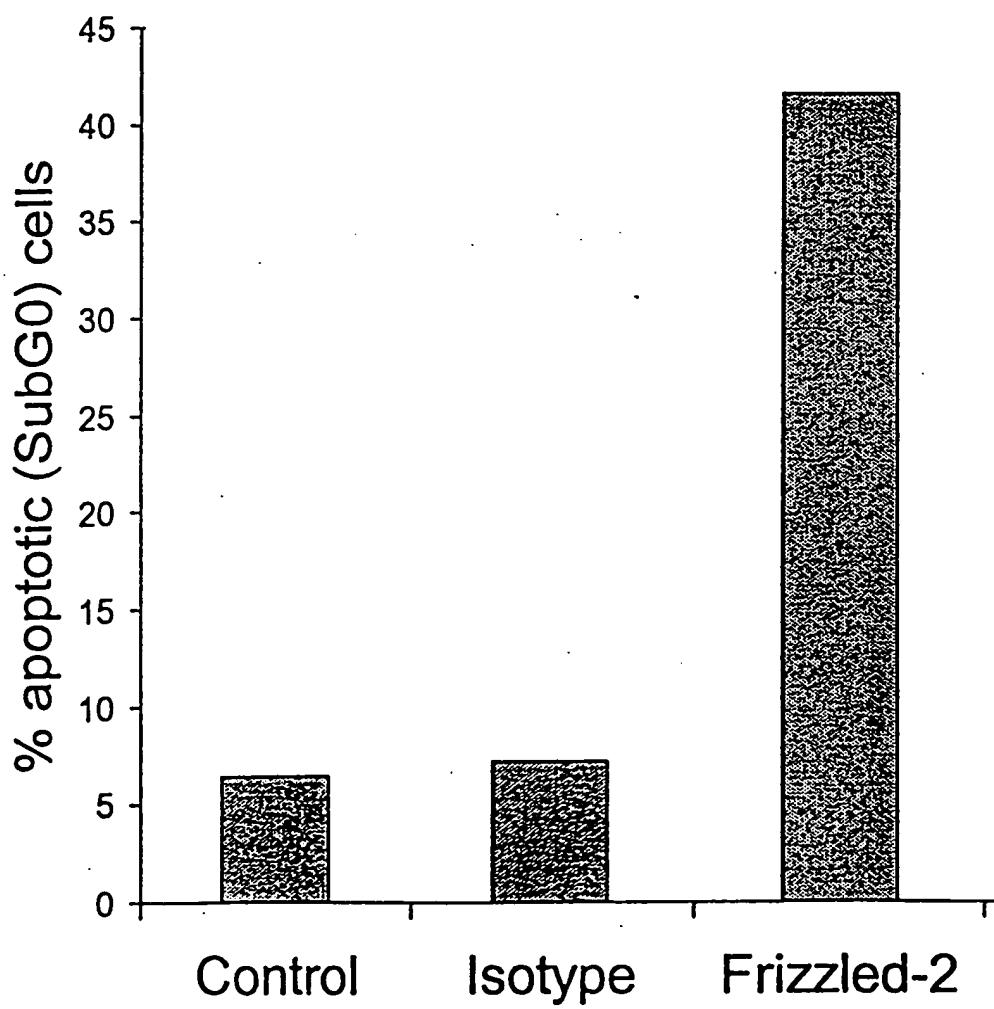
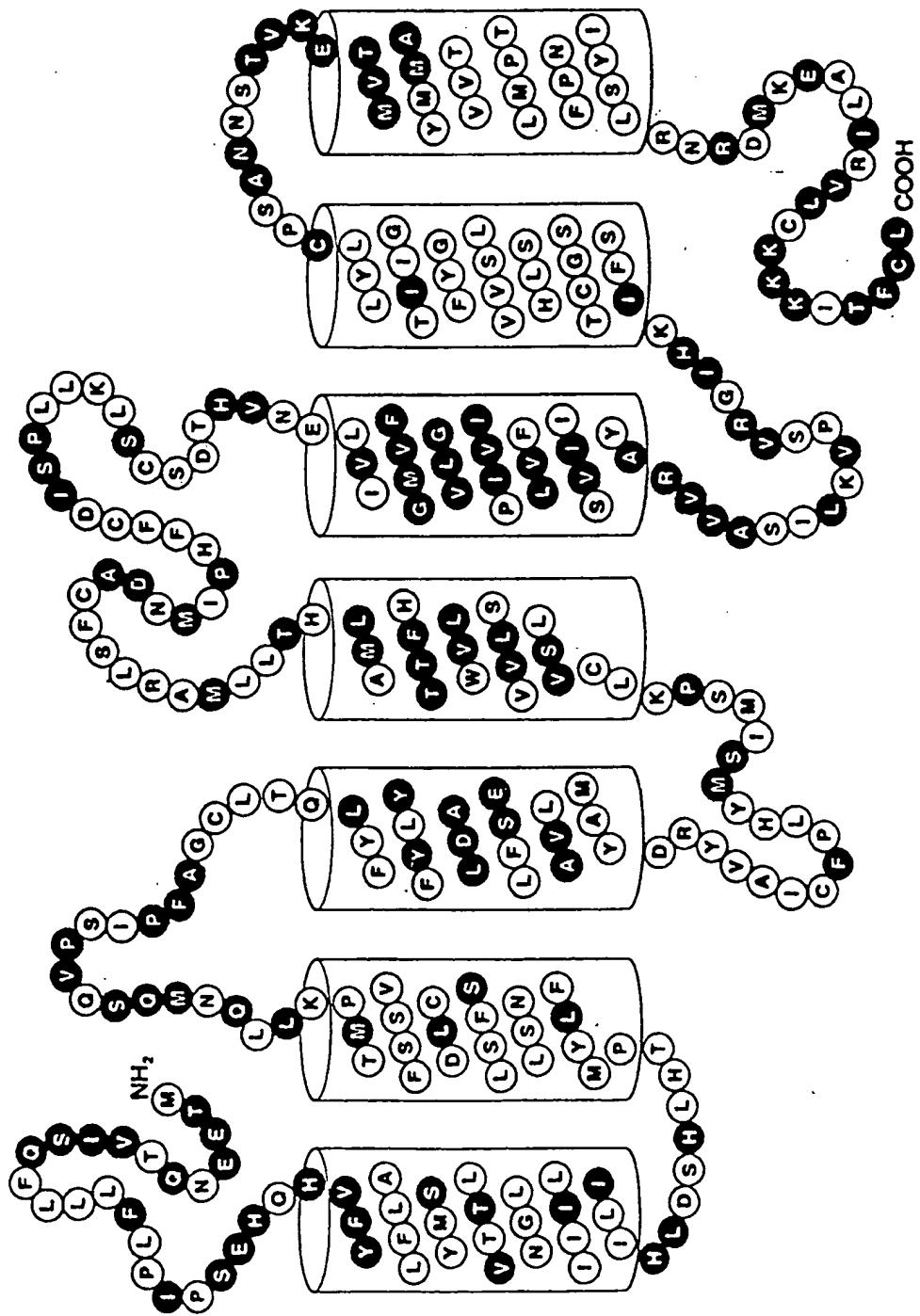


Figure 7



Graphical representation of an olfactory protein showing aminoterminal and three extracellular domain loops (from PCT WO 92/17585)

Figure 8a

→ amino terminal domain

HFZ1	MAEEEAPKKSRAAGGGASWELCAGALSARLAEEGSGDAGGRRRPPVDPRLARQLLLLLW
MFZ1	MAEEAAPSSESRAAGR-LSLELCAEALPGRREEVGHEDTASHRRPRADPWRASGLLLLW
HFZ2	-----MRPRSALEPRLLLPLL
HFZ3	-----MAMTWIVFSLWPLTV
MFZ3	-----MAVSWIVFDLWLLTV
HFZ4	-----MAWRGAGPSVPVGAPGGVGLSLGLLLQ
MFZ4	-----MAWPGBTGPSSRGAPGGVGLRLGLLLQ
HFZ5	-----MARPDPSAPPSSLL-LLL
HFZ6	-----MEMFTFLLTCI
MFZ6	-----MERSPFLLACI
HFZ7	-----MRDPGAAAPLSSLGLCALVLA
MFZ7	-----MRGPGTAASHSPLGLCALVLA
HFZ8	-----MEWGYLLEVTSLLAALAL
MFZ8	-----MEWGYLLEVTSLLAALAV
HFZ9	-----MAVAPL-RGALLWQLLA
MFZ9	-----MAVPPLLRGALLWQLLA
HFZ10	-----MQRPGPRLWLVLQ

HFZ1	LLEAPLLLGVRAQAAGQGPQGPQGPQQPPPPQQQQSGQQYNGERGISVPDHGYCQPI
MFZ1	LLEAPLLLGVRAQAAGQVSG---PGQQAPPPPQPPQSGQQYNGERGISIPDHGYCQPI
HFZ2	LLPA-----A-----GPAQFHGEKGISIPDHGFCQPI
HFZ3	FMGHI-----GGHSLFS-----CEPIT
MFZ3	FLGQI-----GGHSLFS-----CEPIT
HFZ4	LLLLLG-----PARFGDDEE-----RRCDPIR
MFZ4	FLLLLR-----PTLFGDDEE-----RRCDPIR
HFZ5	LAQLVG-----RAAAASKAPV-----CQEIT
HFZ6	FLPLL-----RGHSLFT-----CEPIT
MFZ6	LLPLV-----RGHSLFT-----CEPIT
HFZ7	LLGAL-----SAGAGAQPYHGEGKISVPDHGFCQPI
MFZ7	LLGAL-----PTDTRAQPYHGEGKISVPDHGFCQPI
HFZ8	LQRSSG-----AAAASAKELA-----CQEIT
MFZ8	LQRSSG-----AAAASAKELA-----CQEIT
HFZ9	AGGAAL-----EIGRFDPERGR-----GAAPCQAVE
MFZ9	TGGAAL-----EIGRFDPERGR-----GPAPCQAME
HFZ10	VMGSCA-----AISSMDMERP-----GDGKCQPIE

* : -

HFZ1	IPLCTDIAYNQTIMPNLLGHTNQEDAGLEVHQFYPLVKVQCSAELKFFLCMSYAPVCT-V
MFZ1	IPLCTDMAYNQTIMPNLLGHTNQEDAGLEVHQFYPLVKVQCSAELKFFLCMSYAPVCT-V
HFZ2	IPLCTDIAYNQTIMPNLLGHTNQEDAGLEVHQFYPLVKVQCSPELRFLLCMSYAPVCT-V
HFZ3	LRMCQDLPYNTTFMPNLLNHYDQQTAAALAMEPFHMPMVNLDCSRDFRFLCALYAPICM-E
MFZ3	LRMCQDLPYNTTFMPNLLNHYDQQTAAALAMEPFHMPMVNLDCSRDFRFLCALYAPICM-E
HFZ4	ISMCQNLGYNVTKMPNLVGHELQTDAAELQLTTFTPLIQQYGCSSQLQFFLCSVYVPMCTEK
MFZ4	IAMCQNLGYNVTKMPNLVGHELQTDAAELQLTTFTPLIQQYGCSSQLQFFLCSVYVPMCTEK
HFZ5	VPMCRGIGYNLTHMPNQFNHDTQDEAGLEVHQFWPLVEIQCSPDLRFFLCTMYTPICLPD
HFZ6	VPRCMKMYNMTFFPNLMGHYDQGIAAVEMEHFLPLANECSPNIEFLCKAFVPTCI-E
MFZ6	VPRCMKMYNMTFFPNLMGHYDQGIAAVEMEHFLPLANECSPNIEFLCKAFVPTCI-E
HFZ7	IPLCTDIAYNQTILPNLLGHTNQEDAGLEVHQFYPLVKVQCSPELRFLLCMSYAPVCT-V
MFZ7	IPLCTDIAYNQTILPNLLGHTNQEDAGLEVHQFYPLVKVQCSPELRFLLCMSYAPVCT-V
HFZ8	VPLCKGIGYNYTYPNQFNHDTQDEAGLEVHQFWPLVEIQCSPDLKFFLCMSYTPICLED
MFZ8	VPLCKGIGYNYTYPNQFNHDTQDEAGLEVHQFWPLVEIQCSPDLKFFLCMSYTPICLED

Figure 8b

HFZ9	IPMCRGIGYNLTRMPNLLGHTSQGEAAAELAEFAPLVQYGCASHLRFPLCSLYAPMCTDQ
MFZ9	IPMCRGIGYNLTRMPNLLGHTSQGEAAAQLAEFSPLVQYGCASHLRFPLCSLYAPMCTDQ
HFZ10	IPMCKDIGYNMTRMPNLMGHENQREAAIQLHEFAPLVVEYGCCHGLRFPLCSLYAPMCTEQ
: * : * * : * : * : * : * : * : * : * : * : * : * :	
HFZ1	LEQALPPCRSLCERARQGCEALMNKFGFWQWPDTLKCEKFPVHG--AGELCVGQNTSDKGT
MFZ1	LEQALPPCRSLCERARQGCEALMNKFGFWQWPDTLKCEKFPVHG--AGELCVGQNTSDKGT
HFZ2	LEQAIIPPCRSICERARQGCEALMNKFGFWQWPDTLKCEKFPVHG--AEQICVGQNHSEDGA
HFZ3	YGRVTLPCRRLCQRAYSECSKLMEMFGVPWEDMECSRFPDCD-EPYPRLVLDLNLAG---
MFZ3	YGRVTLPCRRLCQRAYSECSKLMEMFGVPWEDMECSRFPDCD-EPYPRLVLDLNLVG---
HFZ4	INIPIGPCGGMCLSVKRRCEPVLKEFGFAWPESLNCSKFPPQN-DHNHMCMEGPGD---
MFZ4	INIPIGPCGGMCLSVKRRCEPVLREFGFAWPELNCSKFPPQN-DHNHMCMEGPGD---
HFZ5	YHKPLPPCRSVCERAKAGCSPLMRQYGFAWPERMCDRLPVLGRDAEVLCMDYNRSEATT
HFZ6	QIHVVPPCRKLCEKVS DCKKLIDTFGIRWPEELECDRLQYCD-ETVPVTFDPHTEF---
MFZ6	QIHVVLPCCRKLCEKIVSDCKKLMDTFGIRWPEELECNRLPHCD-DTVPVTSHPTEL---
HFZ7	LDQAIPPCRSICERARQGCEALMNKFGFWQPERLRCENFPVHG--AGEICVGQNTSDGSG
MFZ7	LDQAIPPCRSICERARQGCEALMNKFGFWQPERLRCENFPVHG--AGEICVGQNTSDGSG
HFZ8	YKKPLPPCRSVCERAKAGCPLMRQYGFAWPDRMRCDRLPSEQG-NPDTLCMDYNRTDLTT
MFZ8	YKKPLPPCRSVCERAKAGCPLMRQYGFAWPDRMRCDRLPSEQG-NPDTLCMDYNRTDLTT
HFZ9	VSTPIPACRPMCEQARLRCAPIMEQFNFGWPDSDLCARLPTRN-DPHALCMEAPENA-TA
MFZ9	VSTPIPACRPMCEQARLRCAPIMEQFNFGWPDSDLCARLPTRN-DPHALCMEAPENA-TA
HFZ10	VSTPIPACRVMCEQARLKCSPIEQFNFKWPDSLDCRKLPNKN-DPNYLCMEAPNN---
. * : * * : * : * : * : * : * : * : * : * :	
HFZ1	PT---PSLLPEFWTSNPQHGGGGHRG-----
MFZ1	PT---PSLLPEFWTSNGQHGGGGYRG-----
HFZ2	---PALLTAPPPGLQPGAGGTGP-----
HFZ3	---EPTEGAPV-----
MFZ3	---DPTEGAPV-----
HFZ4	---EE-----
MFZ4	---EE-----
HFZ5	APPRPFPAKPTLPG-----PPGA-----PASGG-----
HFZ6	---LGPQKKTE-----
MFZ6	---SGPQKKSD-----
HFZ7	GPGGGPTAYPTAPYLPDLPFTALPPG-----
MFZ7	GAGGSPTAYPTAPYLPDPPTAMSP-----
HFZ8	AAPSPPRRLPPP----GEQPPSGSGHGRPPGARPPHRRGGGGGGDAAAPPARGGGGGK
MFZ8	AAPSPPRRLPPPPP----GEQPPSGSGHSRPPGARPPHRRGGSSRGSGDAAAAPPSSRGK
HFZ9	GPAEPHKGLGMLPV-----
MFZ9	GPTEPHKGLGMLPV-----
HFZ10	GSDEPTRGSGLFPP-----L

HFZ1	GFPGGAG---ASERGKFSCPRAVKVPSYLNYHFLGEKDCGAPCEPTKVYGLMYFGPEEL
MFZ1	GYPGGAG---TVERGKFSCPRAVRVPSYLNYHFLGEKDCGAPCEPTKVYGLMYFGPEEL
HFZ2	GPGGGGAPPYATLEHPFHCPVVKVPSYLSYKFLGERDCAAPCEPARPDGSMFFSQET
HFZ3	VQRDYG-----FWCPRELKIDPDLGYSFLHVRDCSPPCP---NMYFR--REEL
MFZ3	VQRDYG-----FWCPRELKIDPDLGYSFLHVRDCSPPCP---NMYFR--REEL
HFZ4	PLPHKTPI-----QPGEECHSVGTNSDQYIWVKRSNCVLCGYDAGLY-SRSAK
MFZ4	PLPHKTPI-----QPGEECHSVGSNSDQYIWVKRSNCVLCGYDAGLY-SRSAK
HFZ5	ECPAGGPV-----CKCREPFVPILKESHPLYNKVRTGQVNPNCAPCYQPSFSADER
HFZ6	VQRDIG-----FWCPRLKTSQGGQGYKFLGIDQCAPPCP---NMYFK--SDEL
MFZ6	VPRDIG-----FWCPKHLRTSGDQGYRFLGIEQCAPP-----NMYFK--SDEL
HFZ7	ASDGRGRPAF-----PFSCPQLKVPPYLGYRFLGIERDCGAPCEPGRANGLMYFKEER
MFZ7	-SDGRGRLSF-----PFSCPQLKVPPYLGYRFLGIERDCGAPCEPGRANGLMYFKEER
HFZ8	ARPPGGGAAP---CEPGCQCRAPMVSSSERHPLYNRVTGQIANCALPCHNPFFSQDER
MFZ8	ARPPGGGAAP---CEPGCQCRAPMVSSSERHPLYNRVTGQIANCALPCHNPFFSQDER
HFZ9	PRPARPPG-----DLGPGAGGSGTCENPEKFQYVEKSRSCAPRCGPGVEVWSRDK
MFZ9	PRPARPPG-----DSAPGPGSGGTCDNPEKFQYVEKSRSCAPRCGPGVEVWSRDK
HFZ10	FRPQRPHSAQ---EHPLKDGGPGRGGCDNPGKFHHVEKSASCAPLCTPGVDVYWSREDK

Figure 8c

HFZ1	RFSRTWIGIWSVLCCASTLFTVLTYLVDMRRFSYPERPIIIFLSGCYTAVAVAYIAGFLL
MFZ1	RFSRTWIGIWSVLCCASTLFTVLTYLVDMPRFSPYPERPIIISLSGCYTAVAVAYIAGFLL
HFZ2	RFARLWILTWSVLCCASTFTVTTLVDMQRFRYPERPIIIFLSGCYTMVSVAYIAGFVLQ
HFZ3	SFARYFIGLISIICLSATLFTFLTFLIDVTRFRYPERPIIIFYAVCYMMVSLIFFIGFLL
MFZ3	SFARYFIGLISIICLSATLFTFLTFLIDVTRFRYPERPIIIFYAVCYMMVSLIFFIGFLL
HFZ4	EFTDIWMAVWASLCFISTAFTVLTFLIDSSRFSPYPERPIIIFLSMCYNIYSIAYIVRLTVG
MFZ4	EFTDIWMAVWASLCFISTTFTVLTFLIDSSRFSPYPERPIIIFLSMCYNIYSIAYIVRLTVG
HFZ5	TFATFWIGLWSVLCFISTSTTVATFLIDMDTFRYPERPIIIFLSACYLCVSLGFLVRLVVG
HFZ6	EFAKSFIGTVSIFCLCATLFTFLTFLIDVRRFRYPERPIIYYSVCSIVSLMYFIGFLLG
MFZ6	DFAKSFIGIVSIFCLCATLFTFLTFLIDVRRFRYPERPIIYYSVCSIVSLMYFIGFLLG
HFZ7	RFARLWVGWVWSVLCCASTLFTVLTYLVDMRRFSYPERPIIIFLSGCYFMVAHVAGFLL
MFZ7	RFARLWVGWVWSVLSCASTLFTVLTYLVDMRRFSYPERPIIIFLSGCYFMVAHVAGFLL
HFZ8	AFTVFWIGLWSVLCFVSTFATVSTFLIDMERFKYPERPIIIFLSACYLFVSGYLVRLVAG
MFZ8	AFTVFWIGLWSVLCFVSTFATVSTFLIDMERFKYPERPIIIFLSACYLFVSGYLVRLVAG
HFZ9	DFALVWMAVWSALCFFSTAFTVLTFLEPHRFQYPERPIIIFLSMCYNVYSLAFLIRAVAG
MFZ9	DFALVWMAVWSALCFFSTAFTVFTFLEPHRFQYPERPIIIFLSMCYNVYSLAFLIRAVAG
HFZ10	RFAVWLAIWAVLCFFSSAFTVLTFLIDPARFRYPERPIIIFLSMCYCVCYSGYLIIRLFAG

→ extracellular domain loop 1

HFZ1	DRVVCNDK-----	FAEDGARTVAQGTKK
MFZ1	DRVVCNDK-----	FAEDGARTVAQGTNK
HFZ2	ERVVCNER-----	FSEDEGYRTVVQGTTKK
HFZ3	DRVACNAS-----	I - PAQYKASTVTQGSHN
MFZ3	DRVACNAS-----	S - PAQYKASTVTQGSHN
HFZ4	RERISCDF-----	EEAAEPVLIQEGLKN
MFZ4	RERISCDF-----	EEAAEPVLIQEGLKN
HFZ5	HASVACS-----RE	-HNHIHYETTGP
HFZ6	DSTACNKA-----D	-EKLELGDTVVLGSQN
MFZ6	NSTACNKA-----D	-EKLELGDTVVLGSKN
HFZ7	DRAVCVER-----	FSDDGYRTVAQGTKK
MFZ7	DRAVCVER-----	FSDDGYRTVAQGTKK
HFZ8	HEKVACSGGAPGAGGAGGAGGAAA-GAGAAGAGAGGPGGRGEYEELGAVEQHVRYETTGP	
MFZ8	HEKVACSGGAPGAGGRGGAGGAAAAGAGAAAGRGAASSPGARGEYEELGAVEQHVRYETTGP	
HFZ9	AQSVACD-----	QEAGALYVIQEGLEN
MFZ9	AQSVACD-----	QEAGALYVIQEGLEN
HFZ10	AESIACD-----	RDSGQLYVIQEGLES

←
EGCTILFMMLYFFSMASSIWWVILSLTWFLAAGMKWGHEAIEANSQYFHLAAWAVPAIKT
EGCTILFMMLYFFSMASSIWWVILSLTWFLAAGMKWGHEAIEANSQYFHLAAWAVPAIKT
EGCTILFMMLYFFSMASSIWWVILSLTWFLAAGMKWGHEAIEANSQYFHLAAWAVPAVKT
KACTMLFMILYFFTMAGSVWWVILITITWFLAAVPKWGSEAIKKALLFHASAWGIPGTLT
KACTMLFMVLYFFTMAGSVWWVILITITWFLAAVPKWGSEAIKKALLFHASAWGIPGTLT
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TGCAIIFLLMYFFGMASSIWWVILTLTWFLAAGLKWGHEAIEMHSSYFHIAAWAIPAVKT
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KACTVLFMILYFFTMAGTVWWVILITITWFLAAGRKSCEAIEQKAVWFHAVAWGTPGFLT
KACSVVFMFLYFFTMAGTVWWVILITITWFLAAGRKSCEAIEQKAVWFHAVAWGAPGFLT
EGCTILFMVLYFFGMASSIWWVILSLTWFLAAGMKWGHEAIEANSQYFHLAAWAVPAVKT
EGCTILFMVLYFFGMASSIWWVILSLTWFLAAGMKWGHEAIEANSQYFHLAAWAVPAVKT
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TGCTLVFLYYFGMASSLWWVVLTLTWFLAAGKKWGHEAIEANSSYFHLAAWAI PAVKT

HFZ1 ITILALGQVDGDLVSGVCFGLNNVDALRGFVLAPLFVYLFIGTSFLLAGFVSLFRIRTI
 MFZ1 ITILALGQVDGDLVSGVCFGLNNVDALRGFVLAPLFVYLFIGTSFLLAGFVSLFRIRTI
 HFZ2 ITILAMGQIDGDLLSGVCFVGLNSDPLRGFVLAPLFVYLFIGTSFLLAGFVSLFRIRTI
 HFZ3 IILLAMNKIEGDNISGVCFVGLYDVDALRYFVLAPLCLYVVVGVSLLL^{AGI}ISLNVRRIE
 MFZ3 IILLAMNKIEGDNISGVCFVGLYDVDALRYFVLAPLCLYVVVGVSLLL^{AGI}ISLNVRRIE

Figure 8d

Figure 8e

HFZ7	SH--SSKGETAV-----	
MFZ7	SH--SSKGETAV-----	
HFZ8	CW-ASKGAAVGGGAGA-----	TAAGGGGGPGGGGGGGP
MFZ8	CW-ASKGAAVGAGAGG-----	SGPGGSGP-----GP
HFZ9	IA--AGRARAKACRAP-----	GSYGRGTHC-----
MFZ9	MA--AGRARAKACRTP-----	GGYGRGTHC-----
HFZ10	LKKKSRRKPASVITSG-----	GIYKKAQH-----

HFZ1	-----	
MFZ1	-----	
HFZ2	-----	
HFZ3	STQLAMVDDQRSKAGSIHSKVSSYH GSLHRSRDGRYTPCSYRG--MEERLPHGSMS-RLT	
MFZ3	STQLAMVDDQRSKAGSVHSKVSSYH GSLHRSRDGRYTPCSYRG--MEERLPHGSMS-RLT	
HFZ4	-----TVV-----	
MFZ4	-----TVV-----	
HFZ5	-----YPEASAALTGRTGPPGPAATYHKQVSLSHV-----	
HFZ6	SAVAITSHDYLQETLTEIQTSPETSMREVKADGASTPRLREQDCGE PASPAASIS-RLS	
MFZ6	SAMAIAHDYLQETSTEVHTSPEASVKEGRADRANTPSAKDRDCGESAGPSSKLSGNRN	
HFZ7	-----	
MFZ7	-----	
HFZ8	GGGGGPGGGGSLYSDVSTGLTWRSGTAS-SVSYPKQMPLSQV-----	
MFZ8	GGGGGHGGGGSLYSDVSTGLTWRSGTAS-SVSYPKQMPLSQV-----	
HFZ9	-----H--YKAPTVVLHMTKTDPSLENPTHL-----	
MFZ9	-----H--YKAPTVVLHMTKTDPSLENPTHL-----	
HFZ10	-----PQKT-HHGKYEIPAQSPTCV-----	

HFZ1	-----	
MFZ1	-----	
HFZ2	-----	
HFZ3	DHSRHSSSHRLNEQSRHSSIRDLSNNPMTHITHGTSMNRVIEEDGTSA-----	
MFZ3	DHSRHSSSHRLNEQSRHSSIRDLSNNPMTHITHGTSMNRVIEEDGTSA-----	
HFZ4	-----	
MFZ4	-----	
HFZ5	-----	
HFZ6	GEQVDGKG--QAGSVSESARSEGRI SPKSDITDTGLAQSNNLQVSSSEPSSLKGSTSLL	
MFZ6	GRESRAGGLKERSNGSEGAPSEGRVSPKSSVPETGLIDCSTSQAASSPEPTSLKGSTS LP	
HFZ7	-----	
MFZ7	-----	
HFZ8	-----	
MFZ8	-----	
HFZ9	-----	
MFZ9	-----	
HFZ10	-----	

HFZ1	-----	
MFZ1	-----	
HFZ2	-----	
HFZ3	-----	
MFZ3	-----	
HFZ4	-----	
MFZ4	-----	
HFZ5	-----	
HFZ6	VHPVSGVRKEQGGGCHSDT	
MFZ6	VHSASRARKEQGAGSHSDA	
HFZ7	-----	
MFZ7	-----	
HFZ8	-----	
MFZ8	-----	
HFZ9	-----	